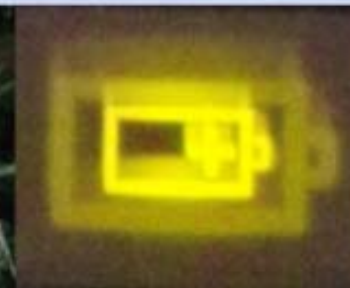


Intel Developer FORUM



MOBILE INNOVATION FOR GROWTH

Anand Chandrasekher

Vice President
Co-General Manager
Mobile Platforms Group

Mobility Vision:

Imagine: Spontaneous Mobility

Mobile PC Growth

47Mu_(est)
2004

25Mu
2001

3 Action Areas

1. More secure, mobile-aware software
2. New platform capabilities
3. Extended battery life

Source: Gartner '04

Mobile Aware Software: Making Mobility Pervasive

36% of enterprises provide wireless
Another 28% in 12 months

IDC, June 2004

Accelerating with Intel Tools:

New: Mobilized Solutions Guide on MobilizedSoftware.com

New: Intel Mobile Platform SDK



35 New Applications in



Logo Program

Software to Make Wireless LAN as Secure as Wired LAN

WIRELESS CLIENT



Client

Intel IT Deploys 2-Step Solution:

- 1) Device Authentication
- 2) Security Compliance

ANNOUNCING

Intel Secure OnConnect
Authentication Guide

Enhancing Digital Office Security and Simplicity

Mobile Capabilities Hit New Milestone

Sonoma Platforms

Launch in Q1'05

Over 125 designs

Mobile entertainment center for Digital Home

High productivity solution for Digital Office

ANNOUNCING

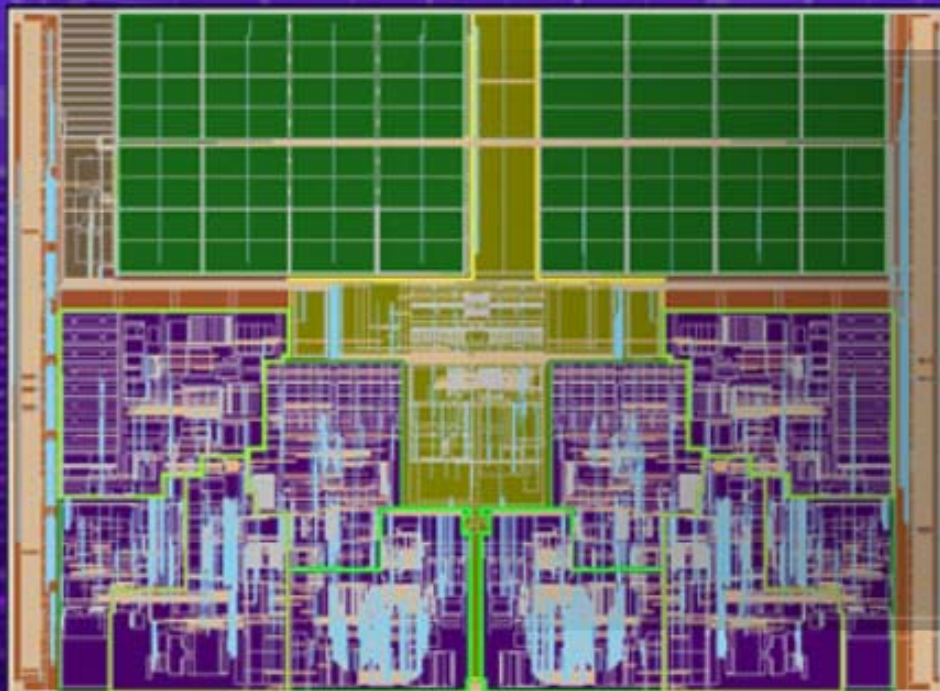
**TeliaSonera simple roaming
between WiFi and WWAN**

ANNOUNCING

**Cisco, Checkpoint, Nortel
join Intel on hands-free VPN**

Future Capabilities

Napa Platform



CORE 1

CORE 2

Yonah: First mobile optimized Dual core processor design from the ground up on 65nm:

LT, VT

Calistoga chipset: Integrated graphics for superb playback

Golan: Next generation wireless solution

Industry Imperative: Battery Life

Vision: Mainstream 8-hour Battery Life by 2010

Platform Power Challenges:

Transistors

Displays

Power state management

Battery technologies

Pionics Lithium-Polymer Batteries

Electrode Energy Density Today

Energy Density
(mAh/g)

700

600

500

400

300

200

100

0

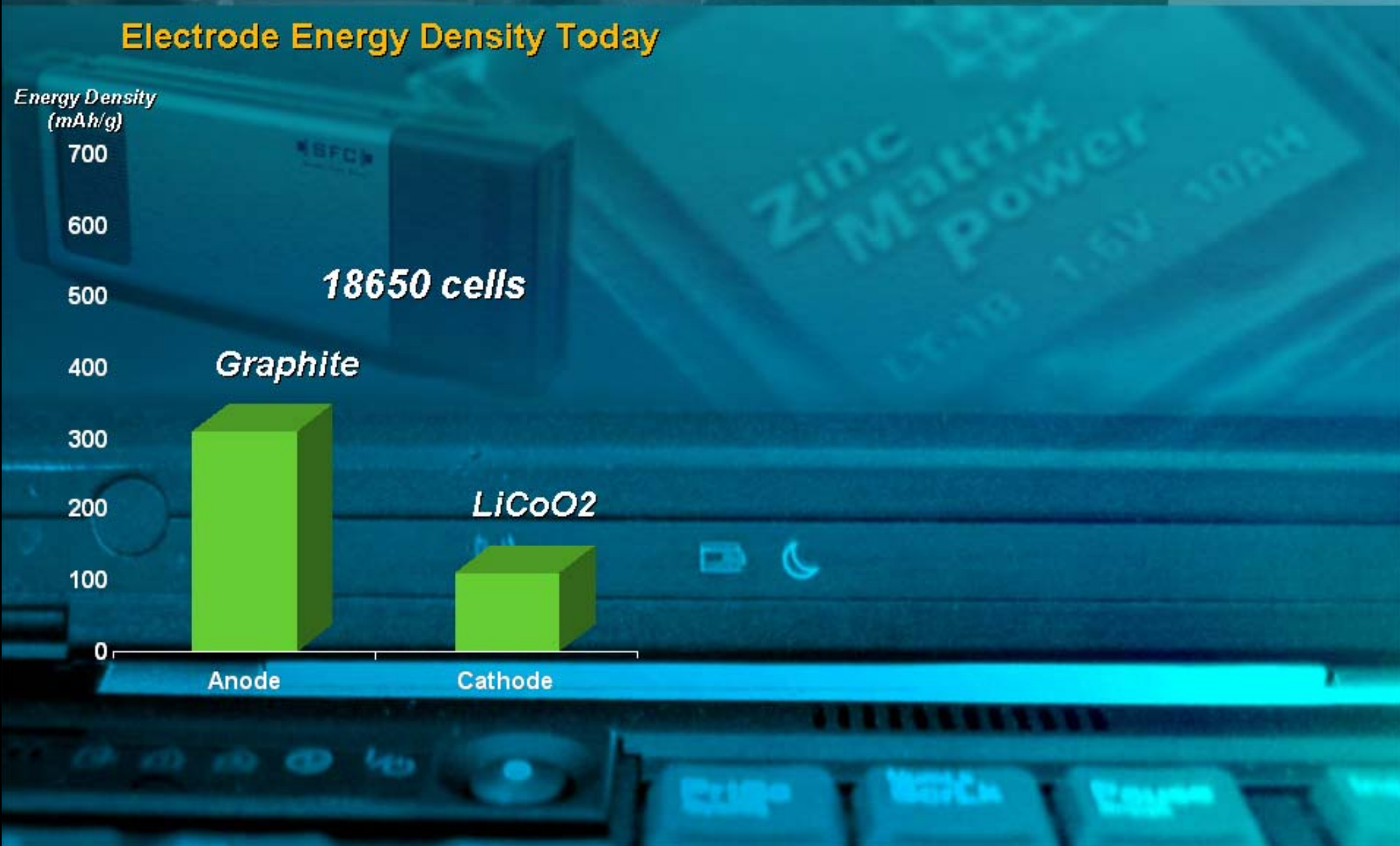
18650 cells

Graphite

LiCoO₂

Anode

Cathode

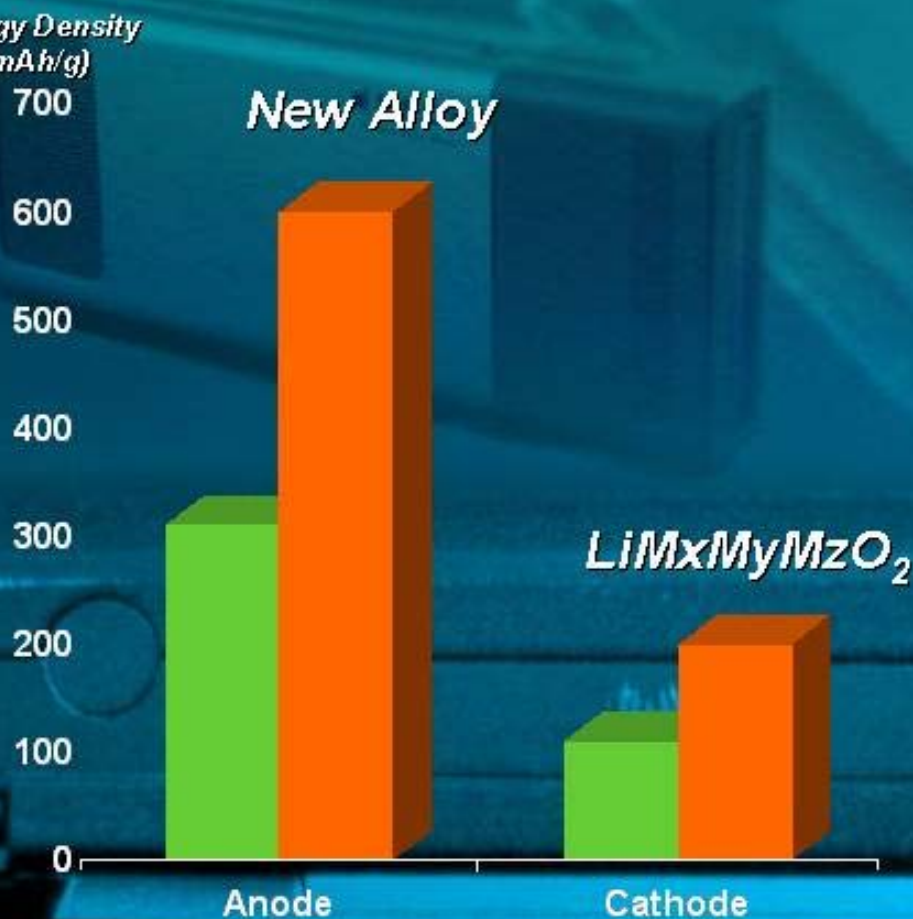


Pionics Lithium-Polymer Batteries

New Chemistry

New Alloy

New chemistry
increases cell
charge density



Pionics Lithium-Polymer Batteries

Volumetric Cell Charge Density

Energy Density
(mAh/g)

700

600

500

400

300

200

100

0

18650C

Pionics



Zinc
Matrix
Power
1.1V 10Ah



Pionics Lithium-Polymer Batteries

Volumetric Cell Charge Density

Energy Density
(mAh/g)

700

600

500

400

300

200

100

0



18650C



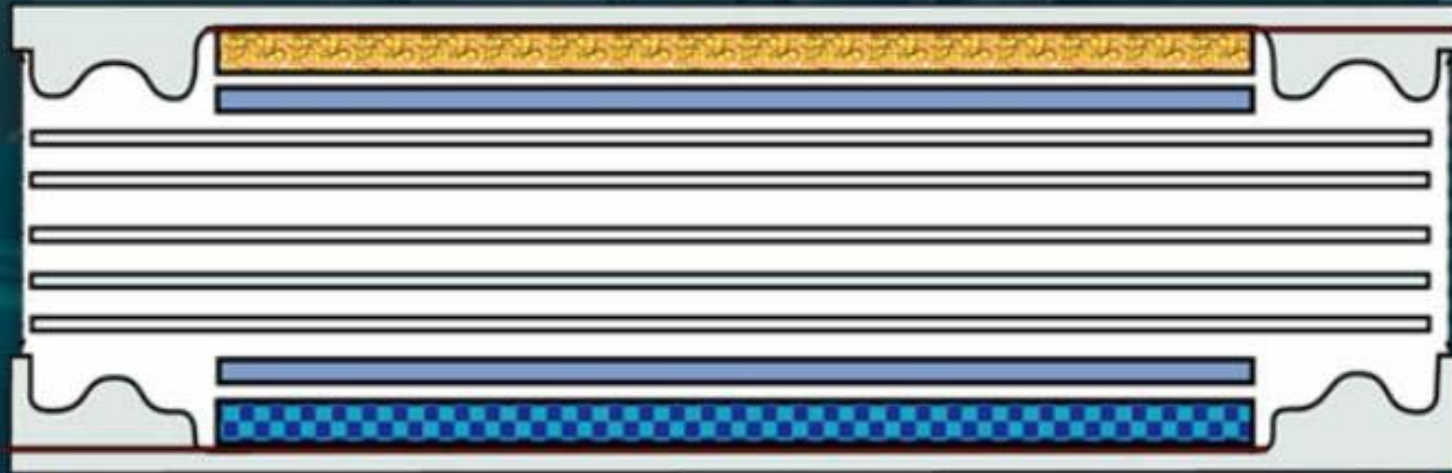
Pionics

Reduced air space
increases pack capacity
2X run time target

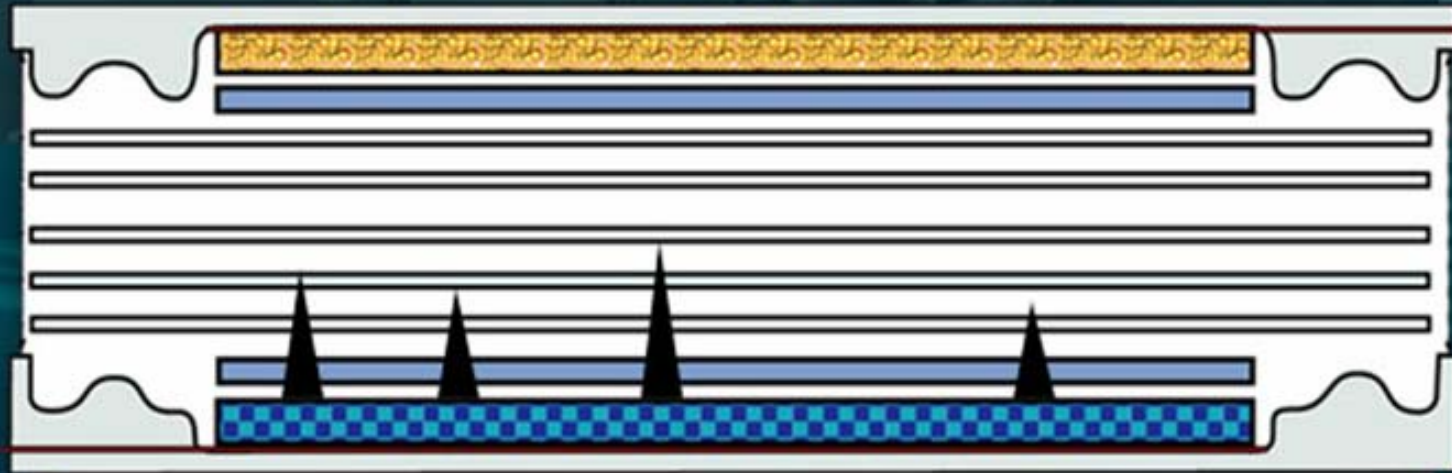
Zinc Alkaline Innovation



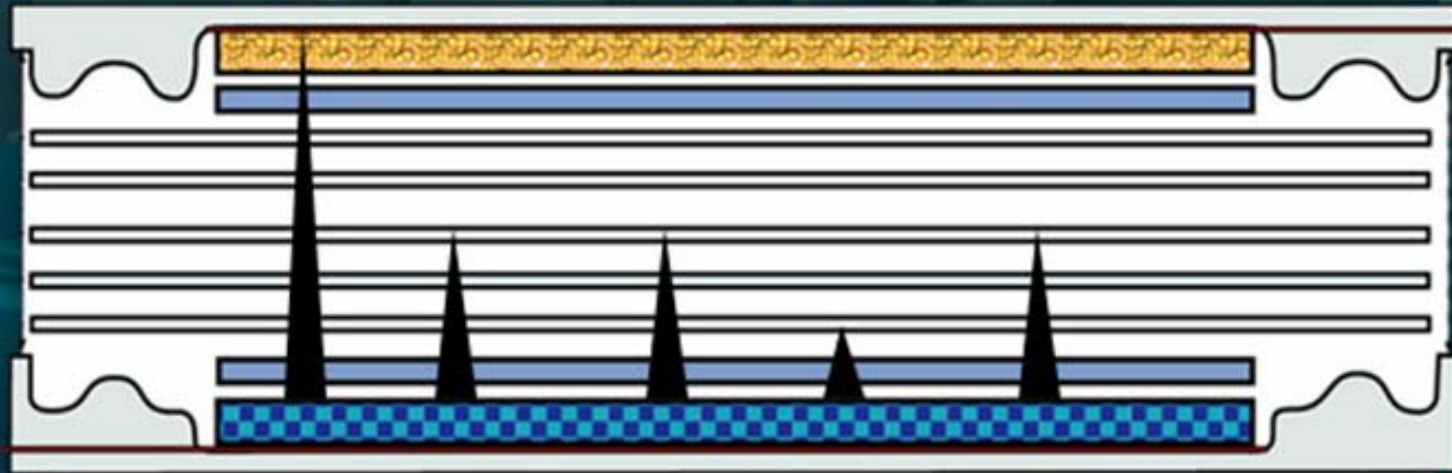
Zinc Alkaline Innovation



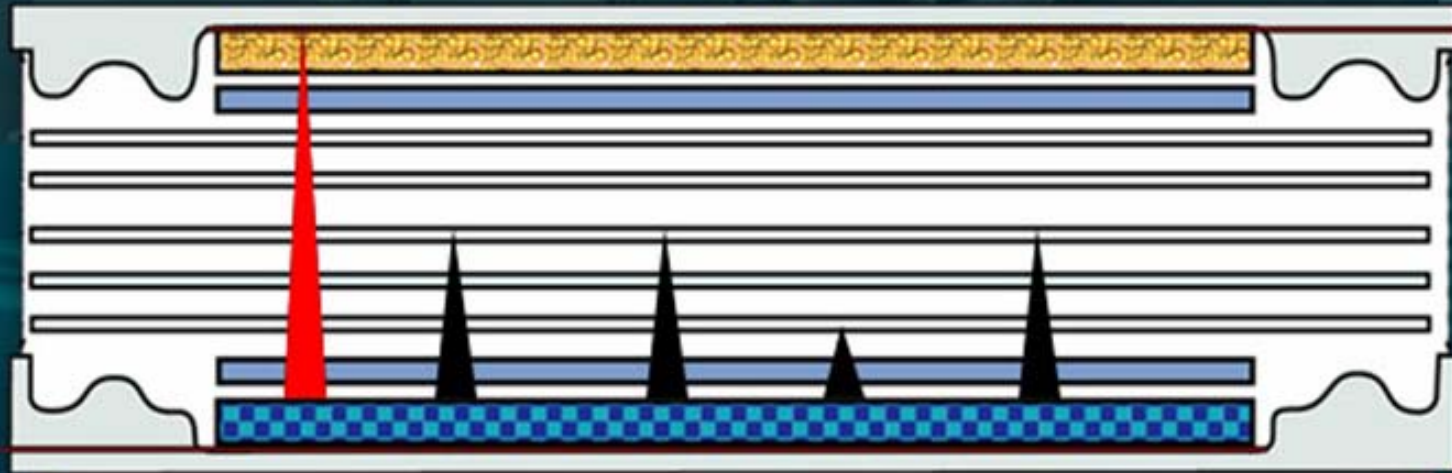
Zinc Alkaline Innovation



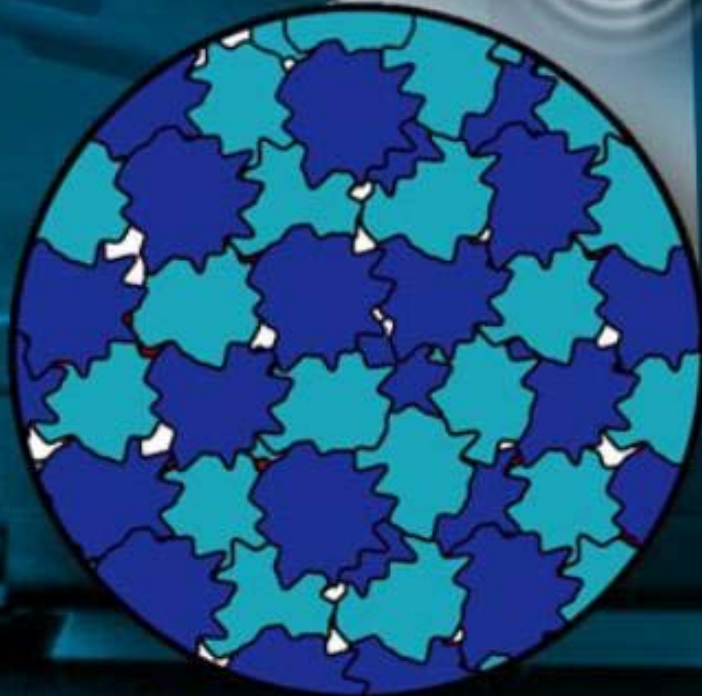
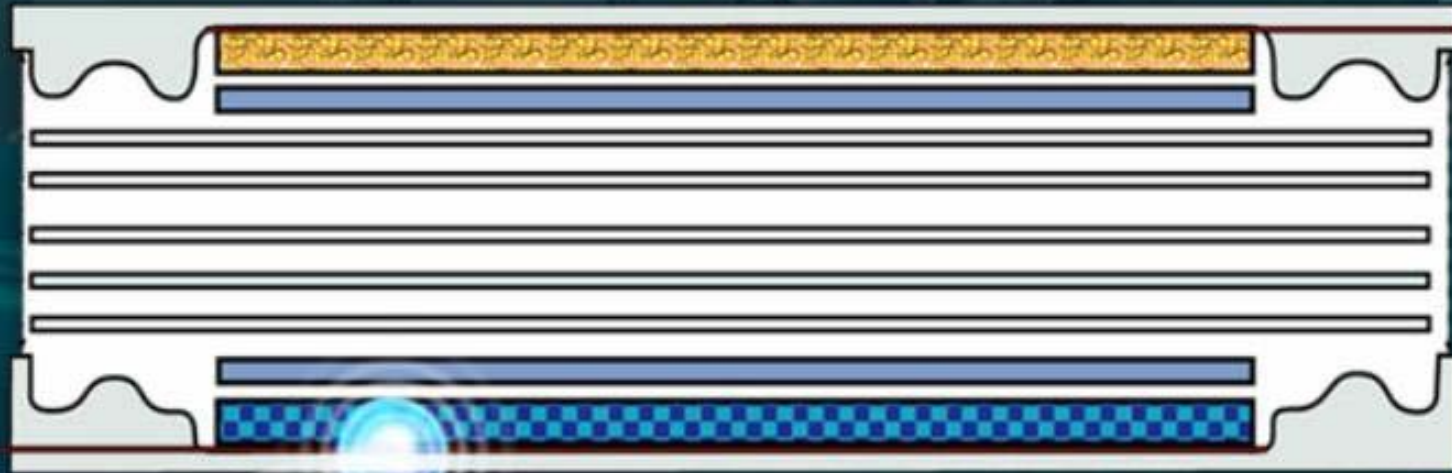
Zinc Alkaline Innovation



Zinc Alkaline Innovation

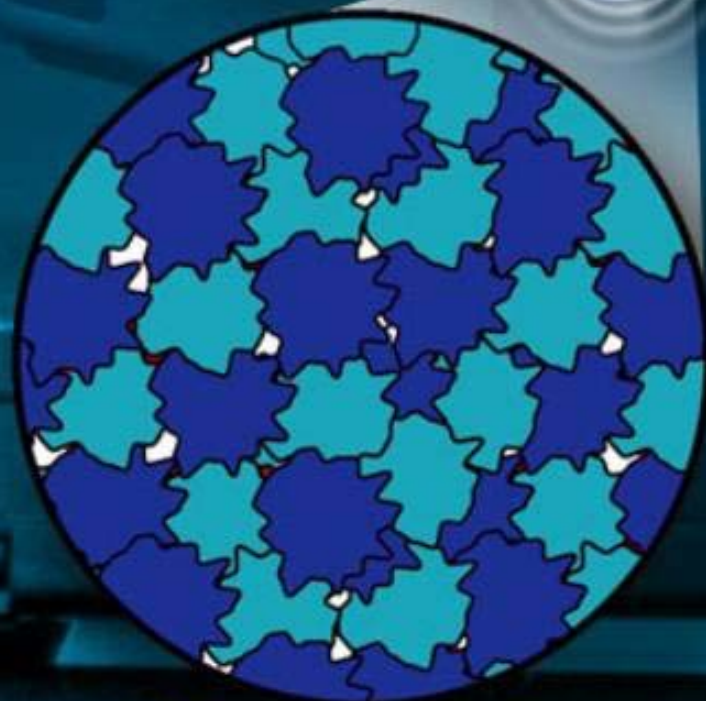
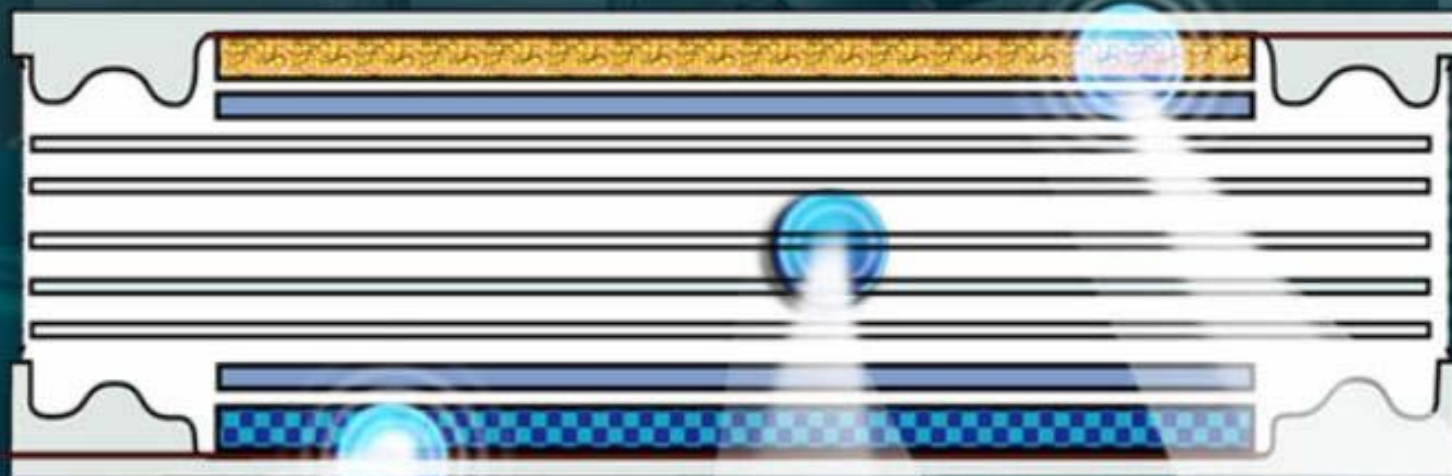


Zinc Alkaline Innovation

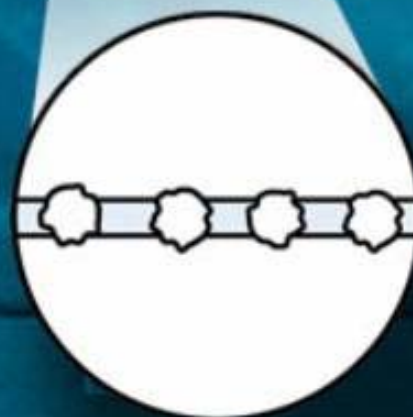


**Matrix anode
enables rechargeability**

Zinc Alkaline Innovation



**Matrix anode
enables rechargeability**



**Hydrogen-permeable
separators minimize pressure**



**Metal oxide increases
charge density**

Battery Life: **Industry Collaboration**

Battery Life Working Group:

On track for 10 million \leq 3watt panels by end of 2005

New ACPI 3.0:

- 1. Enables lowest-power Dual Core operation**
- 2. Reduces display power consumption**
- 3. Enables OS-level standard battery recalibration**

Accelerating Mobility in 3 Key Areas

1. More secure, mobile-aware software

Tracking to plan with Intel tools

2. New platform capabilities

Dual core, power-optimized performance

3. Extended battery life

Battery life optimization



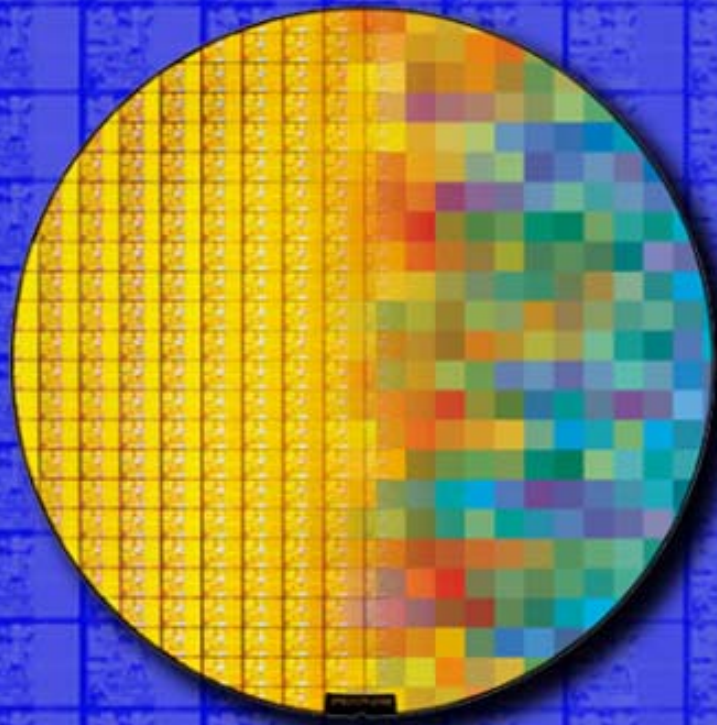
IN SUMMARY: **OUR FUTURE**



Technology innovation key to growth

Intel will continue innovation leadership

Strong growth continues in Mobile



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